

# TABLE OF CONTENTS

## CHAPTER 1 ADMINISTRATION..... 1-1

### Section

101	General	1-1
102	Purpose and Scope	1-1
103	Application of Code	1-1
104	Enforcement, Generally	1-3
105	Local Building Department	1-4
106	Powers and Duties of the Building Official	1-5
107	Fees	1-5
108	Application for Permit	1-5
109	Construction Documents	1-7
110	Permits	1-8
111	Registered Design Professional Services	1-9
112	Workmanship, Materials and Equipment	1-9
113	Inspections	1-10
114	Stop Work Orders	1-11
115	Violations	1-11
116	Certificates of Occupancy	1-12
117	Temporary and Moved Buildings and Structures; Demolition	1-12
118	Buildings and Structures Becoming Unsafe During Construction	1-13
119	Appeals	1-13

## CHAPTER 2 DEFINITIONS..... 2-1

### Section

201	General	2-1
202	General Definitions	2-1

## CHAPTER 3 GENERAL REGULATIONS..... 3-1

### Section

301	General	3-1
302	Protection of Structure	3-2
303	Equipment and Appliance Location	3-3
304	Installation	3-3
305	Piping Support	3-4
306	Access and Service Space	3-5
307	Condensate Disposal	3-6
308	Clearance Reduction	3-7
309	Temperature Control	3-9
310	Explosion Control	3-9
311	Smoke and Heat Vents	3-9

## 312 Heating and Cooling Load

Calculations	3-9
--------------	-----

## CHAPTER 4 VENTILATION..... 4-1

### Section

401	General	4-1
402	Natural Ventilation	4-1
403	Mechanical Ventilation	4-2
404	Enclosed Parking Garages	4-7
405	Systems Control	4-7
406	Ventilation of Uninhabited Spaces	4-7

## CHAPTER 5 EXHAUST SYSTEMS ..... 5-1

### Section

501	General	5-1
502	Required Systems	5-1
503	Motors and Fans	5-8
504	Clothes Dryer Exhaust	5-8
505	Domestic Kitchen Exhaust Equipment	5-10
506	Commercial Kitchen Hood Ventilation System Ducts and Exhaust Equipment	5-10
507	Commercial Kitchen Hoods	5-14
508	Commercial Kitchen Makeup Air	5-16
509	Fire Suppression Systems	5-16
510	Hazardous Exhaust Systems	5-16
511	Dust, Stock and Refuse Conveying Systems	5-18
512	Subslab Soil Exhaust Systems	5-19
513	Smoke Control Systems	5-20
514	Energy Recovery Ventilation Systems	5-23

## CHAPTER 6 DUCT SYSTEMS ..... 6-1

### Section

601	General	6-1
602	Plenums	6-1
603	Duct Construction and Installation	6-3
604	Insulation	6-4
605	Air Filters	6-5
606	Smoke Detection Systems Control	6-5
607	Duct and Transfer Openings	6-6

## CHAPTER 7 COMBUSTION AIR..... 7-1

### Section

701	General	7-1
-----	---------	-----

**TABLE OF CONTENTS**

**CHAPTER 8 CHIMNEYS AND VENTS..... 8-1**

Section

801 General ..... 8-1  
802 Vents ..... 8-2  
803 Connectors ..... 8-3  
804 Direct-vent, Integral Vent and Mechanical  
Draft Systems ..... 8-4  
805 Factory-built Chimneys ..... 8-5  
806 Metal Chimneys ..... 8-6

**CHAPTER 9 SPECIFIC APPLIANCES,  
FIREPLACES AND SOLID FUEL-  
BURNING EQUIPMENT ..... 9-1**

Section

901 General ..... 9-1  
902 Masonry Fireplaces ..... 9-1  
903 Factory-built Fireplaces ..... 9-1  
904 Pellet Fuel-burning Appliances ..... 9-1  
905 Fireplace Stoves and Room Heaters ..... 9-1  
906 Factory-built Barbecue Appliances ..... 9-1  
907 Incinerators and Crematories ..... 9-1  
908 Cooling Towers, Evaporative  
Condensers and Fluid Coolers ..... 9-1  
909 Vented Wall Furnaces ..... 9-2  
910 Floor Furnaces ..... 9-2  
911 Duct Furnaces ..... 9-2  
912 Infrared Radiant Heaters ..... 9-2  
913 Clothes Dryers ..... 9-2  
914 Sauna Heaters ..... 9-3  
915 Engine and Gas Turbine-powered<sup>3</sup>  
Equipment and Appliances ..... 9-3  
916 Pool and Spa Heaters ..... 9-3  
917 Cooking Appliances ..... 9-3  
918 Forced-air, Warm-air Furnaces ..... 9-3  
919 Conversion Burners ..... 9-4  
920 Unit Heaters ..... 9-4  
921 Vented Room Heaters ..... 9-5  
922 Kerosene and Oil-fired Stoves ..... 9-5  
923 Small Ceramic Kilns ..... 9-5  
924 Stationary Fuel Cell Power Systems ..... 9-5  
925 Masonry Heaters ..... 9-5  
926 Gaseous Hydrogen Systems ..... 9-5  
927 Heat Recovery Ventilators ..... 9-5

**CHAPTER 10 BOILERS, WATER HEATERS  
AND PRESSURE VESSELS ..... 10-1**

Section

1001 General ..... 10-1  
1002 Water Heaters ..... 10-1  
1003 Pressure Vessels ..... 10-1  
1004 Boilers ..... 10-1  
1005 Boiler Connections ..... 10-2  
1006 Safety and Pressure Relief Valves  
and Controls ..... 10-2  
1007 Boiler Low-water Cutoff ..... 10-2  
1008 Steam Blowoff Valve ..... 10-3  
1009 Hot Water Boiler Expansion Tank ..... 10-3  
1010 Gauges ..... 10-3  
1011 Tests ..... 10-3

**CHAPTER 11 REFRIGERATION..... 11-1**

Section

1101 General ..... 11-1  
1102 System Requirements ..... 11-1  
1103 Refrigeration System Classification ..... 11-2  
1104 System Application Requirements ..... 11-2  
1105 Machinery Room, General Requirements ..... 11-8  
1106 Machinery Room, Special Requirements ..... 11-9  
1107 Refrigerant Piping ..... 11-9  
1108 Field Test ..... 11-11  
1109 Periodic Testing ..... 11-11

**CHAPTER 12 HYDRONIC PIPING ..... 12-1**

Section

1201 General ..... 12-1  
1202 Material ..... 12-1  
1203 Joints and Connections ..... 12-2  
1204 Pipe Insulation ..... 12-3  
1205 Valves ..... 12-4  
1206 Piping Installation ..... 12-4  
1207 Transfer Fluid ..... 12-4  
1208 Tests ..... 12-4  
1209 Embedded Piping ..... 12-5

**CHAPTER 13 FUEL OIL PIPING  
AND STORAGE ..... 13-1**

Section

1301 General ..... 13-1

1302 Material. . . . . 13-1  
 1303 Joints and Connections . . . . . 13-1  
 1304 Piping Support . . . . . 13-2  
 1305 Fuel Oil System Installation . . . . . 13-2  
 1306 Oil Gauging . . . . . 13-3  
 1307 Fuel Oil Valves. . . . . 13-3  
 1308 Testing. . . . . 13-3

**CHAPTER 14 SOLAR SYSTEMS . . . . . 14-1**

Section

1401 General . . . . . 14-1  
 1402 Installation . . . . . 14-1  
 1403 Heat Transfer Fluids. . . . . 14-2  
 1404 Materials . . . . . 14-2

**CHAPTER 15 REFERENCED STANDARDS . . . . 15-1**

**APPENDIX A COMBUSTION AIR OPENINGS  
 AND CHIMNEY CONNECTOR  
 PASS-THROUGHS . . . . . A-1**

**APPENDIX B RECOMMENDED PERMIT  
 FEE SCHEDULE . . . . . B-1**

**INDEX . . . . . INDEX-1**

